

METHOD AND APPARATUS FOR MATERIAL PROCESSINGAbstract of the Invention

An apparatus processes a surface of an inhabitable structure. The apparatus includes a laser base unit adapted to provide laser light to an interaction region, the laser light removing material from the structure. The laser base unit includes a laser generator and a laser head coupled to the laser generator. The laser head is adapted to remove the material from the interaction region, thereby providing reduced disruption to activities within the structure. The apparatus further includes a laser manipulation system which includes an anchoring mechanism adapted to be releasably coupled to the structure and a positioning mechanism coupled to the anchoring mechanism and coupled to the laser head. The laser manipulation system is adapted to controllably adjust the position of the laser head relative to the structure. The apparatus further includes a controller electrically coupled to the laser base unit and the laser manipulation system. The controller is adapted to transmit control signals to the laser base unit and to the laser manipulation system in response to user input.

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